GPS Vehicle tracker

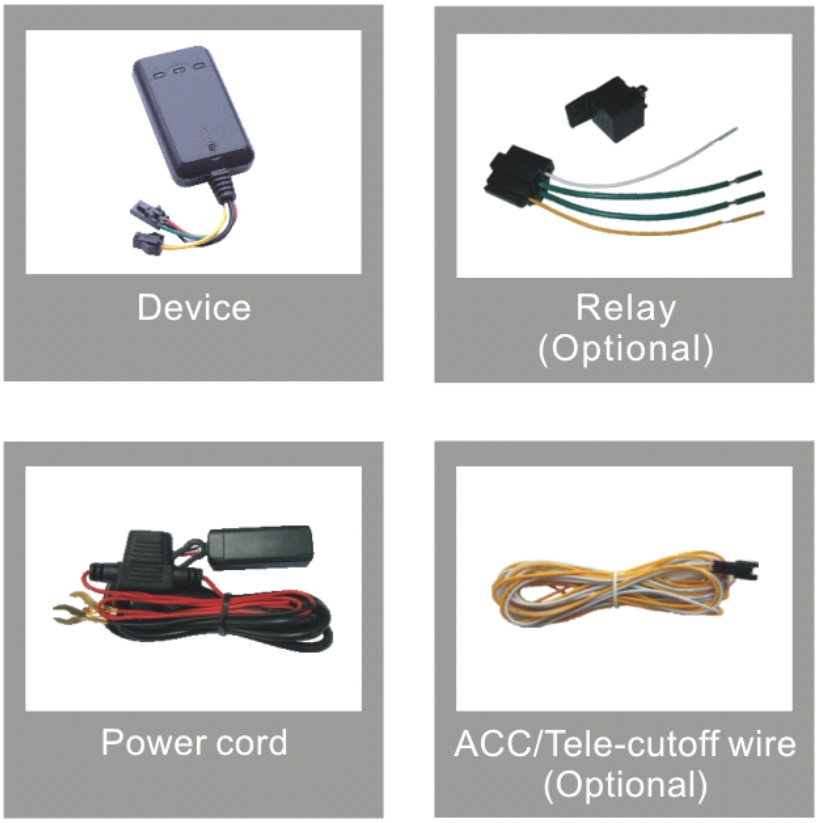
(Anti-theft Tracking & Positioning)

GT07 USER MANUAL

(Version 2.1)

Please read this manual carefully before attempting installation and online activation.
Pictures are for indication and illustration purposes only.

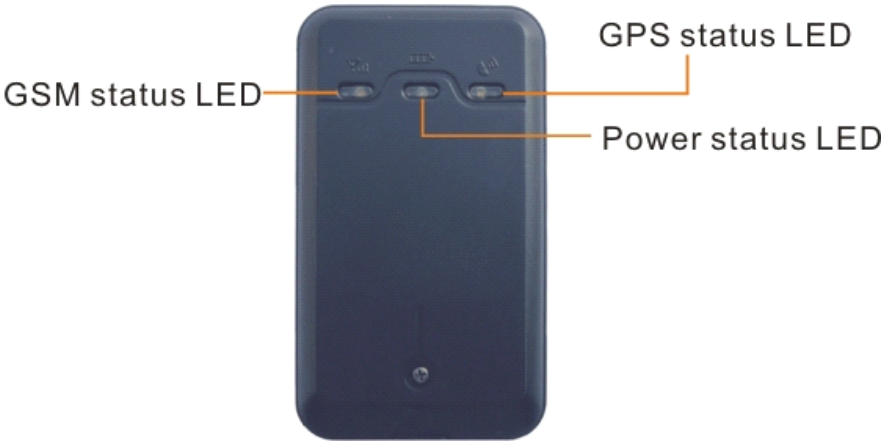
1. Accessories:



2. Features:

- Wide voltage input range: 9-36vDC
- GPS position upload via GPRS as preset interval
- Check location via SMS
- Built-in vibration sensor, intelligent theft-proof
- ACC ignition detection
- Tele-cutoff (petrol/ electricity) function

3. Interface introduction



3.1 Red LED(power/working status)

LED Status	Meaning
Continuously in dark state	power off
Slow flashing	Working normally

3.2 Green LED(GSM status indicator)

LED Status	Meaning
flashing	Receive GSM signal normally
Slow flashing	Start GPRS
Continuously in dark state	No GSM signal

3.3Blue LED(GPS status indicator)

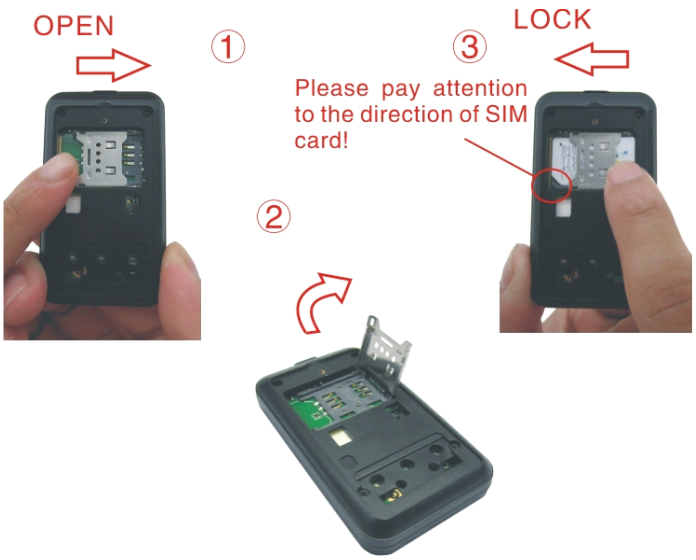
LED Status	Meaning
Quick flashing	Searching GPS signal, not located
Slow flashing	GPS located
Continuously in dark state	GPS is in sleep mode or not working

3.4 Ignition detection indication

Three (blue/red/green) LEDs are in cycling flashing

4. Method of installation

4.1 Installing SIM card



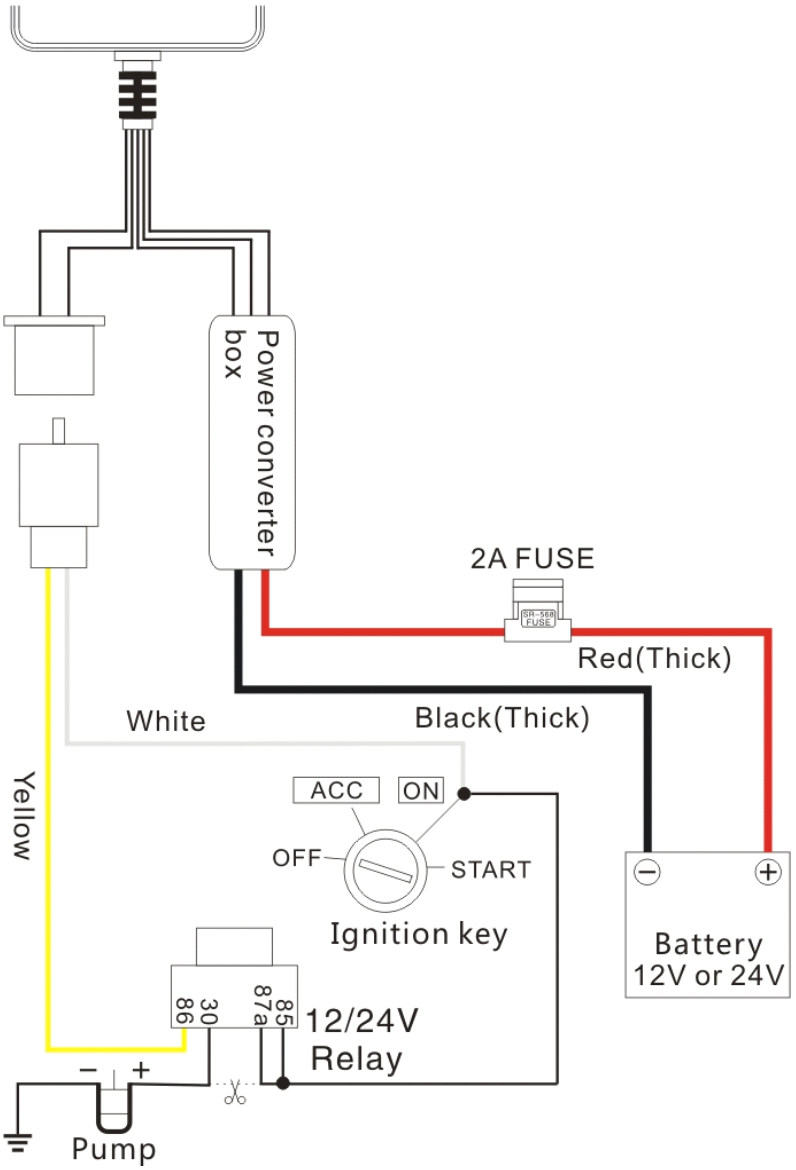
- Open the SIM card silicon seal
- insert the SIM card to the slot (do not insert the SIM card backwards) and lock it

Note:

- Power off before installing or removing the SIM card.
- The SIM card used should be available for GPRS

4.2 Note of installation

- Covertly installation, be aware of water drops
- Stay away from interference of electromagnetic signals
- Fixed firmly into position
- Make sure the device face towards sky, with no metal object above it to interfere with GPS signal
- The standard voltage is 9V-36VDC. Please use the power line which provided by the manufacturer. There is a power converter box in the power wire.
- Device wiring diagram



- The device will power on automatically when connected to power. The power status LED will light up.

5. Cautions of device wiring

5.1 Power:

The standard voltage is 9V-36VDC. Please use the power line which provided by the manufacturer. The red line is the positive. The black line is the negative.

5.2 ACC/Tele-cutoff (petrol/electricity) control line

5.2.1 ACC line (white) is connected to the ACC switch of the vehicle. Please make sure to connect the ACC line. The tracker will decide whether to enter ignition detection according to ACC status. If do not connect to ACC line, the device will enter ignition detection status. If the vehicle vibrates when moving, it will activate the vibration alarm. If there is no need for the theft proof function, connect the ACC line to the positive in parallel and keep high level.

5.2.2 Tele-cutoff (petrol/ electricity) control line (yellow) is connected to pin 86 of the Tele-cutoff (petrol/ electricity) relay (equal to the yellow line of the relay socket).

5.3 Notes of the relay installation:

GT07 is designed and matched by 12V relay. It is suitable to be installed in vehicle with 12V battery. If it is a vehicle with 24V battery, it should be matched by 24V relay.

6. Parameter setting

The SMS command format is no case sensitive and it is divided by comma. There is a reply SMS after sending the command. If set successfully, there will be a SMS reply with “OK”; or else please set again.
The device will reply the corresponding information after sending the SMS command.
The device receives SMS command from any number as default.

6.1 Set SOS number

SMS command to the device to set the SOS number.
SOS,A,No.1,No.2,No.3#
“A” means to add new numbers, for example:
SOS,A, 13510905991,13510905992,13527852360#
If there is only one SOS number, you can appoint a specific number as SOS number. And the null means no adding.
For example:
SOS,A,13510905991# means to set the first number as SOS number

SOS,A,,13510905992# means to set the second number as SOS number
SOS,A,,,13510905993# means to set the third number as SOS number
If set successfully, there will be a SMS reply with “OK”.

6.2 Delete SOS specific number

Before deleting specific number, please check its corresponding code.
SMS command to the device to delete the number.
SOS,D,serial NO.1,serial NO.2,serial NO.3#
“D” means to delete the number, for example:
SOS,D,1# means to delete the first number
SOS,D,3# means to delete the third number
If you want to delete more than one numbers, you can send this command:
SOS,D,1,3# means to delete the first and third numbers.
If you forget serial number of the mobile number you want delete, you can send this command:
SOS,D,mobile number# means to delete the mobile number directly.
For example:
SOS,D,13527852360# means to delete the 13527852360 directly.
If deleting the SOS number successfully, there will be a SMS reply with “OK”.

6.3 Check parameter settings

The SMS command send to the device to check the device settings.
Command format: **PARAM#**
e.g.: PARAM#
Reply information:
IMEI: 353419037523839---- IMEI number of the device
Timezone:E,8,0; -----set time zone; default as E8
SOS Number: 13510905991,13510905992,13527852360;------SOS numbers, maximum three SOS numbers used for alarm
SENSOR:10; 180;------sensor detecting time(default as 10s); vibration alarm delay(default as 180s, the time ranges from 10-300s)
SENDS:2;-------the delay time when GPS is entering sleep state, default as 2mins(when ACC is off, vibration stop, vehicle does not move, GPS will enter sleep state for saving power)
SVL:M;-----vibration sensitivity , default as M (L refers to low, M refers to middle, H refers to high)
ALARM:10;-----sensor alarm delay, the time ranges from 1-60mins.
TIMESET:20;----- With ACC OFF and the alarm is activated, GPS will continuously uploaded data in 20 minutes(default as 20mins). The time range is 1 to 999 minutes.

6.4 Setup GPRS time interval

The default GPRS sending time interval is 20s which means the device will upload positioning data to the platform server every 20s. Users can modify GPS time interval by SMS
Command format: **"TIMER,time(seconds)#**
The time range is from 10-18000seconds.
e.g.: TIMER,10#
It means GPRS sending time interval is 10 which means the device will upload positioning data to the platform server every 10 seconds.

6.5 Sensor Alarm time

When the vehicle power is off, the ACC cable is in low level. If the vehicle power keeps off for 10mins, the device will come to the state of sensor alarm preparation automatically. In that case, if several times of vibration happened, the device will trigger vibration alarm mechanism. After that, if the vehicle is still of (low-level ACC cable) in the following 3mins, the device will alarm instantly.

The sensor alarm preparation time can be modified by SMS.
Command format: **"DEFENSE, time (minutes)#"**
The time ranges from 1 to 60 minutes.
e.g.: **DEFENSE, 15#.**
It means when ACC cable is in low level of 15 minutes, the device will get into the state of sensor alarm.

6.6 Factory Recovery Settings

When the device can't work normally, which is resulted from wrong parameters settings, the user can send SMS to have the device recovered into default parameters.

SMS command: **FACTORY #**
When the device gets command, it will recover parameters into default value.

6.7 Reboot Device

When there is something wrong with the link of GPRS, e.g., the parameter setting of the device is correct, but you can't track the car on the platform.
At this moment you can send a command to the device to reboot the device.
SMS command: **RESET#**
When device gets command, it will reboot after 1min.

6.8 Vibration Sensitivity Setup (Please be careful to use this function.)

User can send SMS to device:
SVL, L#------setting vibration sensitivity as low

SVL, M#-------setting vibration sensitivity as medium
SVL, H#-------setting vibration sensitivity as high

Note: users should be careful to alter parameters of vibration sensitivity, in case of making wrong vibration alarm. It is recommended that this parameters to be set up by installation dealers.

7. Operation of Device

7.1.1 Ask Coordinates
Apply for reply of longitude and latitude from device, the user can send SMS to SIM number of device which will reply its last positioning coordinate automatically. And if it has not fixed GPS ever, it will reply" NO DATA".
SMS command: **WHERE#**
Example of reply:
Lat: N22.571285, Lon: E113.877115, Course: 42.20, Speed:0.0740, Date Time:10-11-23 22:28:51

7.1.2 Ask Google Link
Apply for reply of Google link, it will reply Google link of last positioning longitude and latitude. And if it has not fixed GPS ever, it will reply" NO DATA".
SMS command: **URL#**
Example of reply:
<Date Time: 10-11-23 23:42:51>
http://maps.google.com/maps?q=N22.571490,E113.877103

If your mobile can get on internet, you can open the link in SMS, download map picture with position of device via GPRS, WiFi or 3G etc. wireless searching method. Also, you can view the location information in your computer by typing the link in internet explore tool bar.

7.1.3 Via platform
Go to the platform website offered by dealers to check your vehicle location.

7.2 Vibration Alarm

When vehicle power is off, ACC status is also low, and if the lead time of low ACC is more than 10 minutes （settable）, device will activate vibration alarm. When the vibration alarm is on, once the vehicle vibrates for several times, the alarm will be activated, in the later 3 minutes, vehicle power is still off（ACC is still OFF）,the device will start vibration alarm, and then device will send alarm information and exact longitude and latitude to platform, also to the SOS numbers preset.

e.g.: Sensor Alarm! “about 84m near Gaoxinqi Campus of Bao’an Vocational Technology School(Southeast), Dabao Road, Bianjian Road, Bao’an Area, Shenzhen City, Guangdong province, China”

If the device can not get address for some reason, it will send a google link to the SOS numbers as below:

<Date Time:11-06-17 14 : 53 : 06> , http://maps.google.com/maps?q=N22576713,E113.916585

Note: To realize this function, please set special number beforehand

SMS “**SENSOR,0#**”will turn off vibration alarm.

SMS”ALM,OFF#” will turn off vibration alarm via SMS, only alarm via GPRS

SMS”ALM,ON#” will turn on get vibration alarm via SMS & GPRS.

7.3 Cut-off oil & power

When vehicle is stolen, the user can send command to cut off the oil & power via monitoring platform, making sure vehicle is safely moving, cut off its oil & power makes it can’t move anymore.

To cut off oil & power via platform this needs to logon with user name and password, for the replied message, please check in SMS command list.

Note To make sure the security of vehicle, tracker can only indicate to cut off oil when GPS is in valid position status, and the speed is less than 20KM/H or in static. It needs password and platform account password is needed when sending oil cut off command.

7.4 Restoring Oil

When the alarm is off, sending restoring oil commands manually. Device will restore oil supplying, and vehicle will work normally again.

Platform account password is needed when sending oil cut off command.

To restore oil & power via platform this needs to logon with user name and password, for the replied message, please check in SMS command list.

8. Log in GPS Platform

The website is:

Please get instruction of Service Platform Operation from your dealer.

9. Trouble Shooting

9.1 After installing it in the first time, if device can’t get connected with platform

server, at this time it is “logged off” status in platform.
Please check the installation of device:

① Check whether the connection of power-line is correct, please do not connect it with the car control line.
② Check whether SIM card is installed correctly, please refer to the installation manual;
③ Whether ACC ignition cable is connected, please turn on the ACC with key after it is connected.
④ Check the LEDs’ status. In normal working status, the red LED is in solid bright or flashing; green LED and blue LED are both in solid bright.
⑤ Check whether GPS is located, if not, please drive to the open areas for positioning.

9.2 If it is “offline” status in platform:
First of all, check the three LEDs’ status. If it is not convenient to check that， please check the SIM card status :

① Check whether the vehicle is in no GSM area, such as basement;
② Check the GSM/GPS disconnection area, whether it is all disconnected or few of them disconnected, to make sure whether it is the fault of operator’s internet.
③ Check whether your SIM card charge is overdue;
④ Check whether the SIM card supports GPRS;
⑤ Check the parameter setup, whether the device IMEI number, GPRS sending interval is correct;

9.3 If the device’ GPS function is normal, but can not locate for a long time, please check whether the installation setup of device is correct:

①Please make sure the GPS antenna face is up;
②Please make sure there is no electromagnetic wave- absorbent object (metal) above the device, especially the thermal-protective coating on the windshield, it may affect the GPS reception of the device;

9.4 If GPS can’t receive the signals normally (there is high building around to interfere with GPS reception), please drive to the open areas for positioning. Generally, it needs 1-2 minutes to receive the first coordinates.

9.5 If GSM can’t receive the signals normally, please check whether SIM card is installed correctly or there is no GSM signal at the location you are, such as basement parking, please drive to a place covered by GSM signal reception.

9.6 When cell phone with special number receives tele-cutoff alarm SMS, please make sure whether it is illegal wire cutoff, or the FUSE on power line is blown. If the FUSE in it is blown, please contact your distributor to exchange with the same model FUSE, after the internal trouble is shoot, it can be power on to work again.